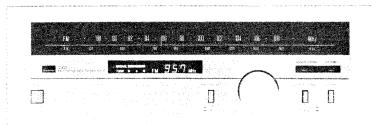


SERVICE MANUAL

FM/AM STEREO TUNER

SANSUI T-80/60



SPECIFICATIONS

<T-80/T-60>

FM Section

Tuning range 88 to 108 MHz

Usable Sensitivity

Mono IHF 10.8 dBf (1.9 μ V: T100)

DIN 1.0 μ V

Stereo IHF 21.0 dBf

50 dB Quieting Sensitivity

Mono 15.0 dBf

Stereo 37.0 dBf

Signal to noise ratio at 65 dBf

Mono 72 dB

Stereo 68 dB

Distortion at 65 dBf

Mono less than 0.2 % at 1,000 Hz

Stereo less than 0.25 % at 1,000 Hz

Alternate channel selectivity (at 400 kHz)

60 dB

Stereo separation 40 dB at 1,000 Hz

Frequency response 30 to 15,000 Hz

+1.0 dB, -2.0 dB

Antenna input impedance

300 ohms balanced

75 ohms unbalanced

AM Section

Tuning range 530 to 1,600 kHz

Usable sensitivity (Bar antenna)

50 dB/m (200 μ V/m)

Signal to noise ratio 45 dB

Image response ratio 45 at 1,000 Hz

Others

Output voltage and impedance

775 mV/2.2 kilohms

Power requirements 110 ~ 120, 220 ~ 240 V

50/60 Hz

For U.S.A. and Canada

120 V (60 Hz)

Power consumption 13 W (T-60)

19 W (T-80)

Weight 4.1 kg (9.0 lbs) net

5.1 kg (11.2 lbs) packed (T-60)

4.8 kg (10.6 lbs) net

5.8 kg (12.8 lbs) packed (T-80)

Dimensions 430 mm (16-15/16") W

147 mm (5-13/16") H

251 mm (9-15/16") D

* Design and specifications subject to change without notice for improvements.

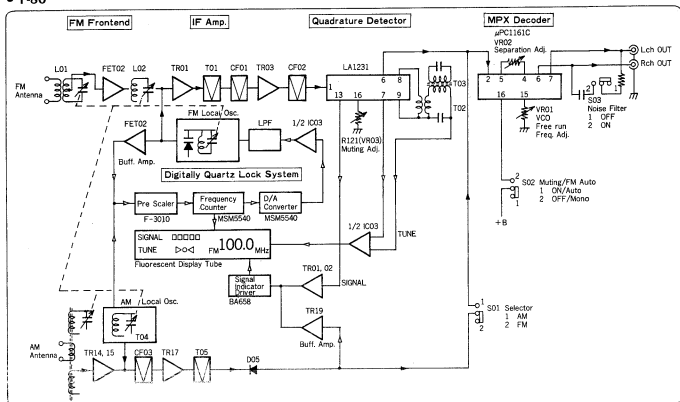
* In order to simplify the explanation illustrations may sometimes differ from the originals.



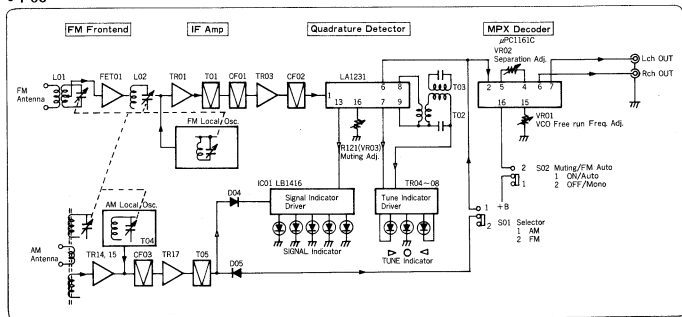
SANSUI ELECTRIC CO., LTD.

1. BLOCK DIAGRAM

• T-80



• T-60



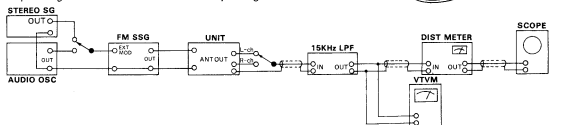
2. ADJUSTMENT




2-1. FM Adjustment (See Top View on Page 8)

Note: 1. Selector FM
2. FM MODE/MUTING Switch MONO/OFF





(1) FM IF, RF Adjustment and Dial Calibration

- Before making adjustments of steps 2 ~ 5, run the unit for more than 2 minutes and make the dial pointer go round on the dial scale at once by tuning knob.



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil Adj. In case of using Genescope	Output 80 dB Genescope	JW03 F-3130	Point A F-3130	T01 F-3130	Max. IF waveform	
	IF Coil Adj. In case of using FM SSG & DC volt meter	98 MHz ANT Input 20 dBf (14.8 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Voltage between Point A and chassis DC volt meter	Same as above	Max. Indication of DC volt meter Meter Range 3V	
2.	Discriminator Coil Adj. In case of using Genescope	Output 80 dB Genescope	Same as above	JW63 F-3130	T02, T03 F-3130	Steep linearity of S curve Make symmetrical S curve	
		No Input		Voltage between TP02 & TP03 F-3130	T02 F-3130	DC 0 V ± 0.1 V	
	Discriminator Coil Adj. In case of using Dist meter	98 MHz ANT Input 65 dBf (59.8 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	OUTPUT L-CH or R-CH Dist Meter VTVM & Scope	T02, T03 & T01 F-3130	Min. THD	
		No Input		Voltage between TP02 & TP03 F-3130	T02 F-3130	DC 0 V ± 0.1 V	
3.	AFC Voltage Adj. <T-80 Only>	No Input		Voltage between TM20 & TM25 F-3130	VR03 F-3000	DC 7 V	Note: As for T-80, steps 3, 4 & 5 should be performed after grounding the collector of TR15 on F-3000
4.	106 MHz Dial Calibration <T-80>	No Input		Dial Pointer	Tuning knob	106 MHz	
				Indication of Display unit	TC03 F-3130	106 MHz	
	106 MHz Dial Calibration <T-60>	106 MHz ANT Input 0 dBf (-5.2 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Dial Pointer	Tuning knob	106 MHz	
				OUTPUT L-CH or R-CH VTVM & Scope	TC03 F-3130	Max. Output	
5.	90 MHz Dial Calibration <T-80>	No Input		Dial Pointer	Tuning knob	90 MHz	
				Indication of Display unit	L04 F-3130	90 MHz	
	90 MHz Dial Calibration <T-60>	90 MHz ANT Input 0 dBf (-5.2 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	Dial Pointer	Tuning knob	90 MHz	
				OUTPUT L-CH or R-CH VTVM & Scope	L04 F-3130	Max. Output	
6.	106 MHz RF Adj.	106 MHz ANT Input Minimum value with sine wave 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	OUTPUT L-CH or R-CH VTVM & Scope	TC01, TC02 F-3130	Max. Output	

to be continued

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
7.	90 MHz RF Adj.	90 MHz ANT Input Minimum value with sine wave 1 kHz (100% MOD) FM SSG	Same as above	Same as above	L01, L02 F-3130	Max. Output	
8.	Signal Indicator Adj. <T-80 Only>	98 MHz ANT Input 20 dBf (14.8 dB), 1 kHz (100% MOD) FM SSG	ANT terminal 300Ω	SIGNAL Indicator	VR01 F-3000	Make 3 indication segments lighting	
		98 MHz ANT Input 65 dBf (59.8 dB), 1 kHz (100% MOD) FM SSG	Same as above	Same as above	Confirm every 8 indication segment lighting		
		No Input	Same as above	Same as above	Confirm only one indication segment lighting		

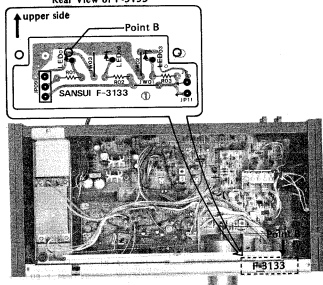
(2) FM STEREO Adjustment

Note: FM MODE/MUTING Switch AUTO/ON

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	PLL VCO Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R (or L) Mode 1 kHz + Pilot (100% MOD) STEREO SG	ANT terminal 300Ω	Stereo indicator	VR01 F-3130	Light indicator	Adjust the VR within center of lighting level
	PLL VCO Adj. In case of using Freq. Counter	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG (No MOD)	Same as above	JW90 <T-60> F-3130 Point B <T-80> F-3133 (See Fig. 2-1)	VR01 F-3130	19 kHz \pm 50 Hz	
2.	Separation Adj.	98 MHz ANT Input 65 dBf (59.8 dB) FM SSG Pilot 19 kHz (9% MOD) R Mode 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	OUT L-CH VTVM & Scope	VR02 F-3130	OUT -40 dB	Confirm separation L-CH \rightarrow R-CH (-40 dB)
3.	Muting level Adj.	98 MHz ANT Input 15 dBf (9.8 dB) FM SSG Pilot 19 kHz (9% MOD) SUB 1 kHz + Pilot (100% MOD) STEREO SG	Same as above	Stereo indicator or OUTPUT L-CH or R-CH VTVM & Scope	R121 (VR03) F-3130	Stereo indicator turns ON or Output Signal comes out	

Fig. 2-1. Location of Point B (Measure output of VCO Signal)

Rear View of F-3133

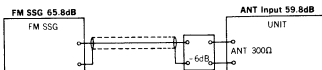
**• NEW MEASUREMENT FOR FM.**

Input signal level under the provision of IHFM-T-200, a new measurement method is indicated by available power ratio "dBf". To obtain approximate available power ratio "dBf", abstract 0.8 from attenuator indication of general FMSG (open load indication type); however, the former measurement, IHFM-T-100 is designated together too.

The way of modulation of IHFM-T-200 is shown below.

	modulation frequency	modulation mode	modulation factor
FM MONO	1000 Hz		100%
FM STEREO	1000 Hz	SUB	Pilot 9% Pilot + SUB 100%

• The relation between the standard input 65 dBf of IHFM-T-200 and the former indication "dBf" is shown below.



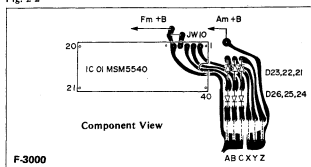
● Selection of Intermediate Frequencies (FM) (Refer to parts location F-3000 on page 6) <T-80 Only>

The digital locking point differs with the frequency rank of the ceramic filter used in the F-3130. When the central frequency (shown by a color) of the ceramic filter is changed, the following connection must be made by using jumper wires:

- Unify the color marks of the FM ceramic filters (CF01, CF02) on the F-3130 with the same color.
- Select the joints A, B, and C of F-3000 according to color marks as shown in the following table:

Colour ing	Intermediate frequency	Connecting Position of Jumper wire on F-3000			Connecting Position of Diode on F-3000		
		A	B	C	D26 Total Qty	D25 D24	Diode Total Qty
Black	10.64MHz			●	1		●
Brown	10.66MHz		●		1	●	1
Blue	10.68MHz		●	●	2	●	2
Red	10.70MHz	●			1	●	1
Orange	10.72MHz	●		●	2	●	2
Gray	10.74MHz	●	●		2	●	2
White	10.76MHz	●	●	●	3	●	3

Fig. 2-2



● Abbreviations

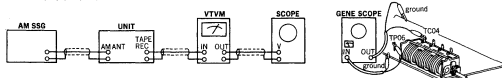
<Equipment>	
AM FM Generator Oscilloscope	Genescope
AM Standard Signal Generator	AM SSG
FM Standard Signal Generator	FM SSG
FM Stereo Generator	Stereo SG
Oscilloscope	Scope
Audio Oscillator	Audio Osc.
Distortion Meter	Dist. Meter

<Others>

Antenna	ANT.
Modulation	MOD.
Total Harmonic Distortion	T.H.D.

2-2. AM IF Adjustment & Dial Calibration (See Top View on Page 8)

Note: 1. Selector AM



STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUST	ADJUST FOR	REMARKS
		FROM	TO				
1.	IF Coil Adj.	Genescope Output 60 dB	TC04 F-3130	TP06 F-3130	CF03, T05 F-3130	Max. Waveform	
2.	600 kHz Dial Calibration <T-80>	No Input		Dial Pointer	Tuning knob	600 kHz	
	600 kHz Dial Calibration <T-60>	600 kHz ANT Input 60 dB 400 Hz (30%MOD.) AM SSG	ANT terminal	Dial Pointer	Tuning knob	600 kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	T04 F-3130	Max. Output	
3.	1400 kHz Dial Calibration <T-80>	No Input		Dial Pointer	Tuning knob	1400 kHz	
	1400 kHz Dial Calibration <T-60>	1400 kHz ANT Input 60 dB 400 Hz (30%MOD.) AM SSG	ANT terminal	Dial Pointer	Tuning knob	1400 kHz	
				OUTPUT L-CH or R-CH VTVM & Scope	TC05 F-3130	Max. Output	
4.	1400 kHz RF Adj.	1400 kHz ANT Input 50 dB 400 Hz (30%MOD.) AM SSG	Same as above	Same as above	TC04	Max. Output	

3. PARTS LOCATION & PARTS LIST

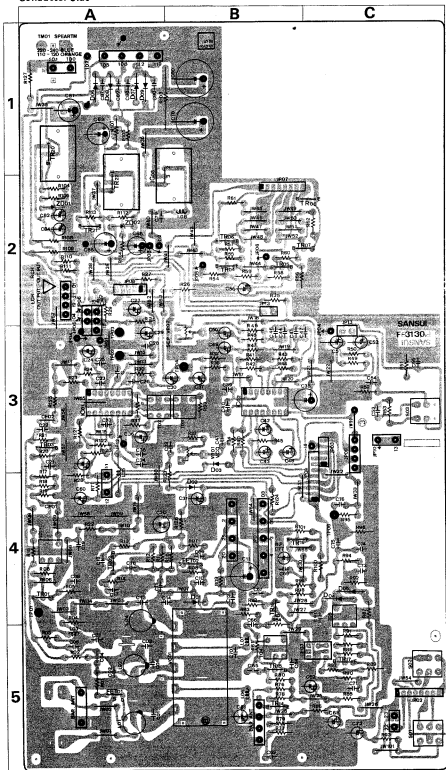
• As the stock number in the parts list on this service manual is indicated in 8 digit to differ from ordinary 7 digit, please be careful when ordering parts.

Note: Parts marked X, Y or without marks indicate as follows:

1. Parts marked X in parts list for T-80 Only
2. Parts marked Y in parts list for T-60 Only
3. Parts without marks in parts list for both T-80 and T-60.

3-1. F-3130 AM, FM, RF, IF Circuit Board (Stock No. 07062101 = T-80) (Stock No. 07056701 = T-60)

Conductor Side

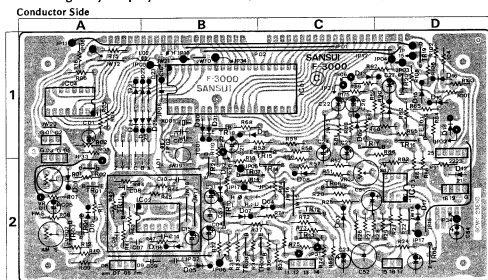


Since some of capacitors and resistors are omitted from parts lists in this Service Manual, refer to the Common Parts List for capacitors & resistors which was appended previously to each Sansui Manual.

Parts List

Parts No.	Stock No.	Description	Position
•Transformer			
TR01	03063401, 2	25C1674 L, K	4A
TR02, 03	03063500, 1	25C668 C, D	4A, 3A
TR04	03063501, 2	25C2320 E, F	2B
TR05, 06	03017700, 1	25A089 E, F	2B
TR07, 08	03063501, 2	25C2320 E, F	2C
TR14	03057900, 1	25C930 C, D	5B
TR15	03047700, 1	25A726 F, G	5B
TR16	03057900, 1	25C930 C, D	X 4B
TR17	03057900, 1	25C930 C, D	5C
TR19	03017700, 1	25A089 E, F	X 4B
TR20	03044401, 2	25B527 D, E	X
TR21	03063501, 2	25C2320 E, F	X
TR22	03063501, 2	25C1331 D, E	2A
•IC			
IC 01	03612300	LA1231N	3A
IC 02	03699900	µPC1161C	3B
IC 03	03693200	F57809A	X 1, 2B
•FET			
FET01	03703700, 1	25K120-1, 2	5A
FET02	03703700, 1	25K120-1, 2	4B
•Diode			
D 01	03402100	15S57	X 4B
D 02, 03	03117600	12Z473D	3, 4B
D 05	03117600	1N60	4C
D 06 - 08	03117700	10E-2	1A
•Zener Diode			
ZD01	03179100	RD13E-C	X 2A
ZD02	03179100	RD13E-C	2A
C 39	08701500	390pF 50V P.C.	3B
C 40	08504300	0.047µF 50V F.C. (M)	3B
C 41	08701700	470pF 50V F.C. (M)	3B
C 42	08470800	1.5µF 35V Ta.C.	3B
C 43	08471000	3.3µF 35V Ta.C.	3B
C 44	08702200	700pF 50V F.C. (M)	3B
C 45	08702200	700pF 50V F.C. (M)	3B
C 46	08500400	0.001µF 50V F.C. (M)	3B
C 47	08500400	0.001µF 50V F.C. (M)	3B
C 48	08470300	0.22µF 35V Ta.C.	3B
C 49	08503100	0.01µF 50V F.C. (M)	3C
C 50	08503100	0.01µF 50V F.C. (M)	3C
C 51	08503100	0.01µF 50V F.C. (M)	3C
C 52	08503100	0.01µF 50V F.C. (M)	3C
C 53	08503100	0.01µF 50V F.C. (M)	3C
C 54	08503100	0.01µF 50V F.C. (M)	3C
C 55	08503100	0.01µF 50V F.C. (M)	3C
C 56	08503100	0.01µF 50V F.C. (M)	3B
C 57	08503100	0.01µF 50V F.C. (M)	3C
C 58	08503100	0.01µF 50V F.C. (M)	3C
C 59	08503100	0.01µF 50V F.C. (M)	3C
C 60	08503100	0.01µF 50V F.C. (M)	3C
C 61	08503100	0.01µF 50V F.C. (M)	3C
C 62	08503100	0.01µF 50V F.C. (M)	3C
C 63	08503100	0.01µF 50V F.C. (M)	3C
C 64	08503100	0.01µF 50V F.C. (M)	3C
C 65	08503100	0.01µF 50V F.C. (M)	3C
C 66	08503100	0.01µF 50V F.C. (M)	3C
C 67	08503100	0.01µF 50V F.C. (M)	3C
C 68	08503100	0.01µF 50V F.C. (M)	3C
C 69	08503100	0.01µF 50V F.C. (M)	3C
C 70	08503100	0.01µF 50V F.C. (M)	3C
C 71	08503100	0.01µF 50V F.C. (M)	3C
C 72	08503100	0.01µF 50V F.C. (M)	3C
C 73	08503100	0.01µF 50V F.C. (M)	3C
C 74	08503100	0.01µF 50V F.C. (M)	3C
C 75	08503100	0.01µF 50V F.C. (M)	3C
C 76	08503100	0.01µF 50V F.C. (M)	3C
C 77	08503100	0.01µF 50V F.C. (M)	3C
C 78	08503100	0.01µF 50V F.C. (M)	3C
C 79	08503100	0.01µF 50V F.C. (M)	3C
C 80	08503100	0.01µF 50V F.C. (M)	3C
C 81	08503100	0.01µF 50V F.C. (M)	3C
C 82	08503100	0.01µF 50V F.C. (M)	3C
C 83	08503100	0.01µF 50V F.C. (M)	3C
C 84	08503100	0.01µF 50V F.C. (M)	3C
C 85	08503100	0.01µF 50V F.C. (M)	3C
C 86	08503100	0.01µF 50V F.C. (M)	3C
C 87	08503100	0.01µF 50V F.C. (M)	3C
C 88	08503100	0.01µF 50V F.C. (M)	3C
C 89	08503100	0.01µF 50V F.C. (M)	3C
C 90	08503100	0.01µF 50V F.C. (M)	3C
C 91	08503100	0.01µF 50V F.C. (M)	3C
C 92	08503100	0.01µF 50V F.C. (M)	3C
C 93	08503100	0.01µF 50V F.C. (M)	3C
C 94	08503100	0.01µF 50V F.C. (M)	3C
C 95	08503100	0.01µF 50V F.C. (M)	3C
C 96	08503100	0.01µF 50V F.C. (M)	3C
C 97	08503100	0.01µF 50V F.C. (M)	3C
C 98	08503100	0.01µF 50V F.C. (M)	3C
C 99	08503100	0.01µF 50V F.C. (M)	3C
C 100	08503100	0.01µF 50V F.C. (M)	3C
R 103	00052100	100Ω 3W Ca.R.	1B
R 104	00128700	15Ω 1W F.R.	X 1A
R 105	00128700	27Ω 1W F.R.	X 1A
R 106	00189000	330Ω 2W N.I.R.	2A
R 107	00189000	330Ω 2W N.I.R.	X 2A
L 01	42007200	Antenna Coil	5A
L 02	42103400	RF Coil	5A
L 03	49002800	Inductor 1.0µH	5A
L 04	42204000	OSC Coil	4A
L 05	42904900	Peaking Coil	3, 4A
L 06	49002800	Inductor 1.0µH	5B
L 07	49004000	Inductor 100µH	2B
L 08	49002200	Inductor 100 mH	2B
T 01	42393900	IF Coil 10.7 MHz	4A
T 02	42362700	FM Detector Coil	3B
T 03	42362800	FM Detector Coil	3B
T 04	42207400	AM OSC Coil	5B
T 05	42306600	AM IF Coil	4C
CF 01	09104900	Ceramic Filter 10.7 MHz	4A
CF 02	09104900	Ceramic Filter 10.7 MHz	3A
CF 03	09106500	Ceramic Filter 455 kHz	5C
CF 04	09106100	Ceramic Filter 455 kHz	X 5C
VR01	10370800	VCO Free Run Freq. Adj. 5k (B)	3B
VR02	10371100	Separation Adj. 200k (B)	3B
R121(VR03)	10371100	Muting level Adj. 200k (B)	3A
S 01	11321500	Push Switch, AM/FM Selector, FM mode	5C
S 03	11314901	Push Switch Noise Canceller	X 3C
F 01	04312200	AC Fuse	3C
VC01	12203000	Variable Capacitor	3C
	22007000	2P Output Terminal	3C
	22026000	4P Antenna Terminal	3C

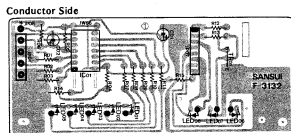
3-2. F-3000 Digitally Display Circuit Board (Stock No. 75988901 = T-80)



Parts List

Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position	Parts No.	Stock No.	Description	Position
•Transistor				•FET				C 54	00303600	47 μ F 10V B.P.	2D
TR01	03065901 ~ 3 2SC945	O, P, K	2A	FET01	03703000 ~ 3 2SK117	O, V, GR, BL	1D	L 01	42800101	Choke Coil 3.5 μ H	
TR02	03065100 ~ 2 2SA733A	P, Q, R	2A		03704000 ~ 7 2SK163	K1, K2, L1, L2, M1, M2, N1, N2		L 02	89001100	Inductor 100 μ H	
TR05, 06	03065901 ~ 3 2SC945	O, P, R	2B	•Diode				V R01	10351300	FM SIGNAL Adj. 10Ld (B) 2A	
TR07	03065100 ~ 2 2SA733A	P, Q, R	2B	D 03, 04	03111600	152473D	2A, C	V R03	10351100	AFC Bias Adj. 4.7k Ω (B) 2C	
TR08, 09	03065901 ~ 3 2SC945	O, P, R	2B, 2C	D 07 ~ 14	03111600	152473D	1, 2C	X 001	09300400	Crystal 6.5536 MHz	1B
TR10	03065100 ~ 2 2SA733A	P, Q, K	2B	D 17, 18	03111600	152473D	2D, 1D	F L01	00000100	Fluorescent Display Tube	
TR12 ~ 18	03065901 ~ 3 2SC945	O, P, K	1, 2C	I 21, 24	03111600	152473D	1A				
TR20	03065100 ~ 2 2SA733A	P, Q, K	1D	A 50, 55	09111900	152473D	1D, 2C				
TR21	03065901 ~ 3 2SC945	O, P, K	7B	C 11	00396900	8 μ F 50V C.T.	1B				
•IC				C 12	00387200	22 μ F 50V C.T.	1B				
IC 01	03609100	MSA5560RS	1B	C 52	00304700	33 μ F 16V B.P.	2C, D				
IC 05	04607700	NJM4558D	2D	C 53	00304900	3.3 μ F 16V B.P.	2B				
IC 04	03606300	SA4058	1A								

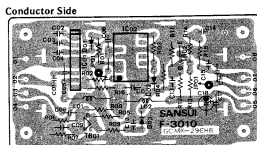
3-3. F-3132 SIGNAL, TUNE Indicator Circuit Board (Stock No. 75989301 = T-60)



Parts List

Parts No.	Stock No.	Description
•IC		
IC 01	03611600	LB1416
LED01 ~ 06	03191300	GL-6PR9 (Red)
LED06, 07	03191300	GL-6PR6 (Red)
LED08	03191300	GL-2PC1 (Green)

3-4. F-3010 Pre Scaler Circuit Board (Stock No. 75989101 = T-80)



Parts List

Parts No.	Stock No.	Description
•Transistor		
TR01, 02	03063401, 2	2SC1674 L, K
•IC		
IC 01	03611300	AN6621
IC 02	03611200	SN74LS00N
	03611300	SN74LS00A
	03611300	TD34906P
•Diode		
D 01 ~ 03	03111600	152473D
L 01, 02	42800101	Choke Coil 3.5 μ H

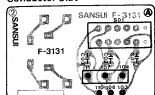
•Abbreviations

C.R. Carbon Resistor	E.L. Low Leak Electrolytic Capacitor
S.R. Solid Resistor	E.B. Bi-Polar Electrolytic Capacitor
C.R. Cement Resistor	E.B.L. Low Leak Bi-Polar Electrolytic Capacitor
M.R. Metal Film Resistor	T.C. Tantalum Capacitor
F.R. Fusing Resistor	F.C. Film Capacitor
N.I.R. Non-Inductance Resistor	M.P. Metalized Paper Capacitor
C.C. Ceramic Capacitor	P.C. Polystyrene Capacitor
C.T. Ceramic Capacitor, Temperature Compensation	G.C. Gummy Capacitor
E.C. Electrolytic Capacitor	

- The circuit boards, F-3131 & F-3133 are not supplied as the assembled, the individual parts on the circuit boards, however are provided for orders.

3-5. F-3131 Power Switch Circuit Board

Conductor Side



Parts List

Parts No.	Stock No.	Description
S 01	11323100	Push Switch, power 25V, 1A X
	11323000	Push Switch, power 25V, 1A Y

3-6. F-3133 Stereo Indicator Circuit Board

Conductor Side

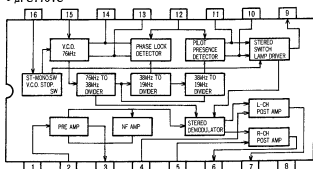


Parts List

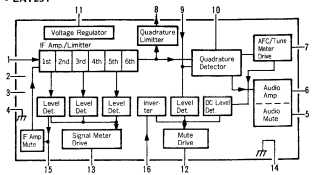
Parts No.	Stock No.	Description
LED01	03193200	GL-SPR (Red), Stereo AM
LED02	03193300	GL-8NGB (Green), FM Y
LED03	03193300	GL-8NGB (Green), Quartz Locked ... X
	03193200	GL-SPR (Red), Stereo Y

• Block Diagram of LA-1231 & μ PC1161C

• μ PC1161C



• LA1231



4. REPLACEMENT OF DIAL CORD

- If a dial cord is cut off or slips, replace it by following procedures. As this unit uses 0.5 mm ϕ cord, please replace it with the same type certainly.
- The length of dial cord is approximately 215 cm (84.6 inch).

4-1. Threading of Dial Cord

<T-80/60>

Thread the dial cord in numerical order from ① to ⑪ as Fig. 1.

- Close the variable capacitor completely.
- Dial Cord (0.5 mm ϕ) (Stock No. 6036050)

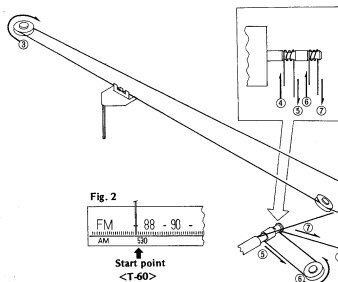
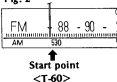


Fig. 1

Fig. 2



4-2. Attachment of Dial Pointer

<T-80>

1. After installing the dial string, turn on the power switch. If the dial digital display is in the "FM Reception" state, turn the tuning knob until the digital display indicates 98.0 MHz. Then, fix the pointer to the dial string, after setting the pointer to the 98.0 MHz value of the scale.
2. After attaching Dial pointer confirm Dial pointer moves from 88 MHz to 108 MHz to turn the tuning knob.

<T-60>

1. Close the variable capacitor completely.
 2. Set the dial pointer to the start point, the line at the left end of the dial scale. (Fig. 2)
- Confirm that the dial pointer runs smoothly on the dial scale by turning the turning shaft.

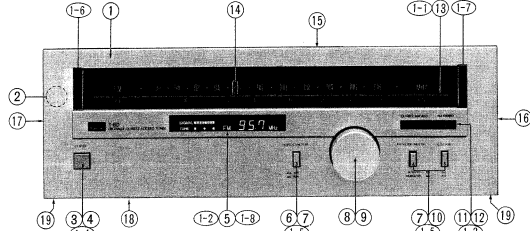
5. OTHER PARTS

• Since there are black & silver models in T-80 & T-60, please pay attention when ordering parts.

Parts marked (S) in parts list for silver model only

Parts marked (B) in parts list for black model only

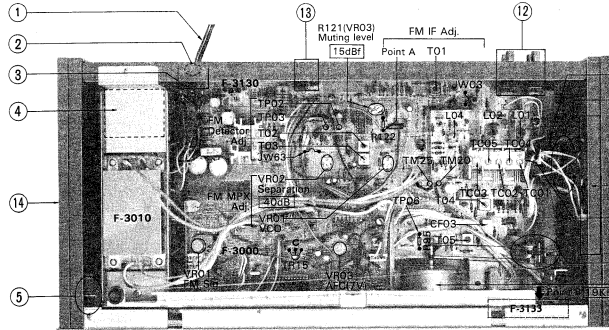
5-1. Front View <T-80>



Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	70089410	Front Panel Assy (S)	1-8	54265000	Blue Filter, display window	9	70087100	Tuning Unit (S)
1-1	70089010	Front Panel Assy (B)	2	04027800	Lamp, 20V, 0.12A	1-1	70087000	Tuning Unit (B)
1-2	52657000	Dial Window Glass	3	11231100	Push Switch, 20V 1A, power	1-2	52657000	Dial Window Glass
1-3	54496000	Smoked Glass, display window	4	53195000	Push Knob (S), power	1-3	54496000	Smoked Glass, display window
1-4	54495000	Smoked Glass, indicator window	5	53195000	Push Knob (B), power	1-4	54495000	Smoked Glass, indicator window
1-5	52658000	Knob Guide (S), power	6	00000100	Fluorescent Display Tube	1-5	52658000	Knob Guide (B), power
1-6	52659000	Knob Guide (S), volume	7	13146010	Push Switch, noise canceler	1-6	52659000	Knob Guide (B), volume
1-7	52657110	Knob Guide (B), FM mode selector	8	53194910	Push Knob (S)	1-7	52657110	Knob Guide (B), FM mode selector
1-8	54563100	Side Frame (L)	9	53194810	Push Knob (B)	1-8	54563100	Side Frame (R)
1-9	54563000	Side Frame (R)	10	53196290	Push Knob (S), FM mode selector	1-9	54563000	Side Frame (L)
			11	53196200	Push Knob (B), FM mode selector			
			12	53196200	Tuning Knob (S)			
			13	53196200	Tuning Knob (B)			
			14	53196200	Tuning Knob (S)			
			15	53196200	Tuning Knob (B)			
			16	53196200	Tuning Knob (S)			
			17	53196200	Tuning Knob (B)			
			18	53196200	Tuning Knob (S)			
			19	53196200	Tuning Knob (B)			

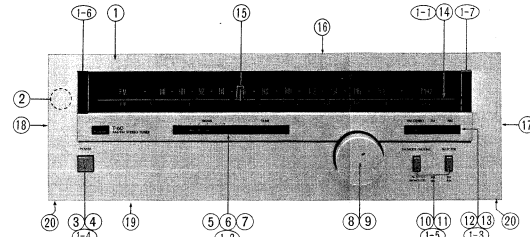
5-2. Top View <T-80>



Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	38005000	Power Cord 125V, 10A	7	71981100	Tension Unit	14	54578000	Side Panel (L)
2	38100000	Strain Relief	8	12203000	Variable Capacitor	15	54578110	Side Panel (R)
3	24601100	AC Outlet	9	42010000	AM Bar Antenna			
4	40020000	Power Transformer	10	52686000	Antenna Holder			
5	04007800	Lamp 20V, 0.12A	11	61467200	Push Knob (S)			
6	70387100	Tuning Unit (S)	12	22802000	4P Antenna Terminal			
	70387000	Tuning Unit (B)	13	22807000	2P Input Terminal			

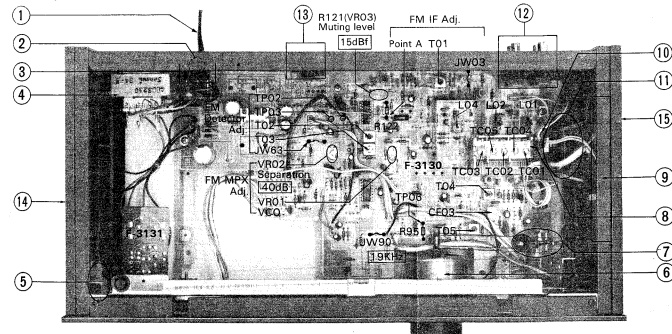
5-3. Front View <T-60>



Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	70089000	Front Panel Assy (S)	1-7	54562000	Side Frame (R)	10	11231900	Push Switch, FM mode selector
1-1	70089000	Front Panel Assy (B)	2	40027000	Lamp, 20V, 0.12A	11	53194910	Push Knob (S), FM mode selector
1-2	52657000	Dial Window Glass	3	11232000	Push Switch, 20V 1A, power	12	53194910	Push Knob (B), FM mode selector
1-3	54496000	Smoked Glass, display window	4	53195000	Push Knob (S), power	13	03193000	LED (Red), FM
1-4	54495000	Smoked Glass, indicator window	5	53195000	Push Knob (B), power	14	54088000	Dial Scale
1-5	52658000	Knob Guide (S), power	6	53195000	LED (Red), TUNE indicator	15	71101200	Dial Primer Assy
1-6	52659000	Knob Guide (S), volume	7	53195000	LED (Green), TUNE indicator	16	52727800	Bornet
1-7	52657110	Knob Guide (B), FM mode selector	8	53195000	Tuning Knob (S)	17	54578110	Side Panel (L)
1-8	54563100	Side Frame (L)	9	53195000	Tuning Knob (B)	18	54578000	Side Panel (R)
1-9	54563000	Side Frame (R)	10	70387100	Tuning Unit (S)	19	52664000	Bottom Board
			11	70387000	Tuning Unit (B)	20	55075410	Rubber Patch

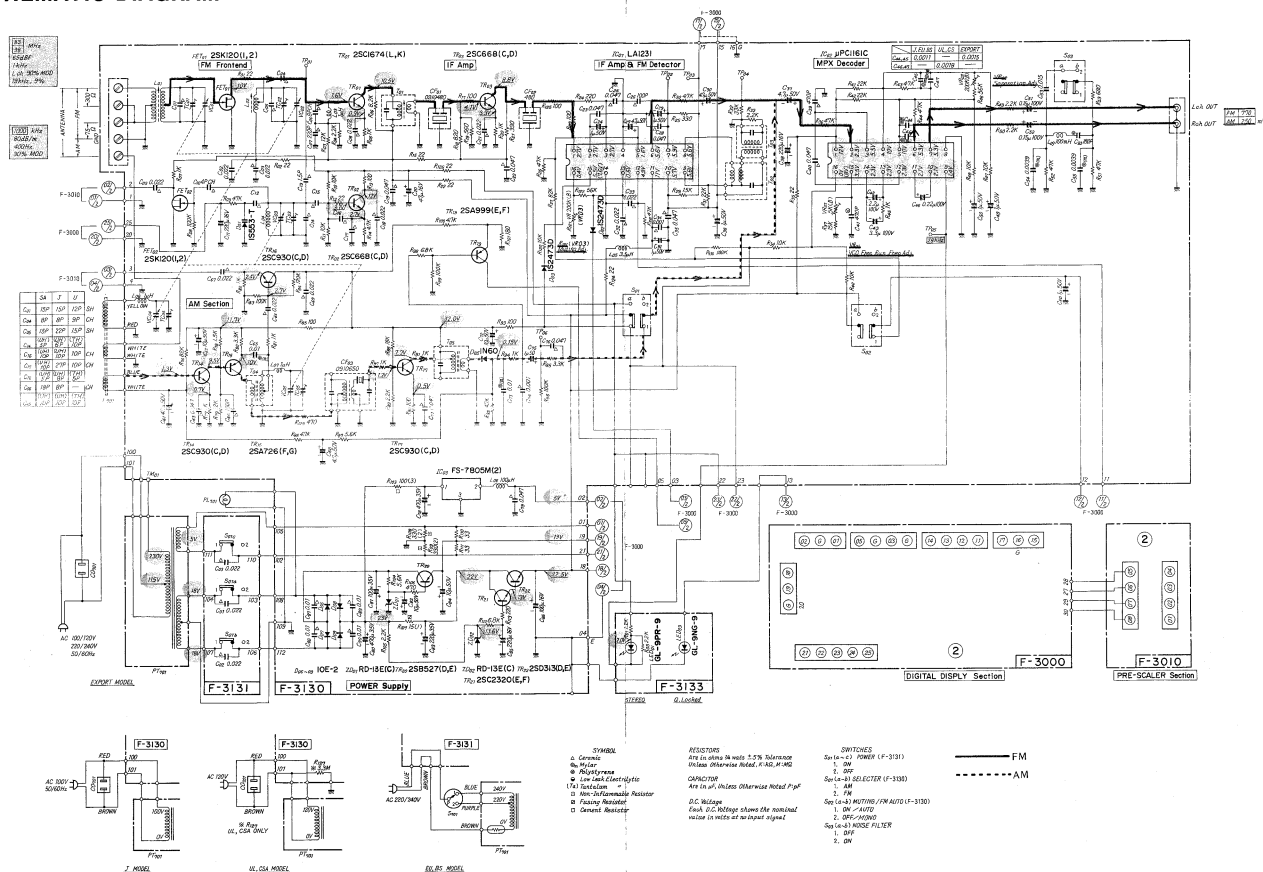
5-4. Top View <T-60>



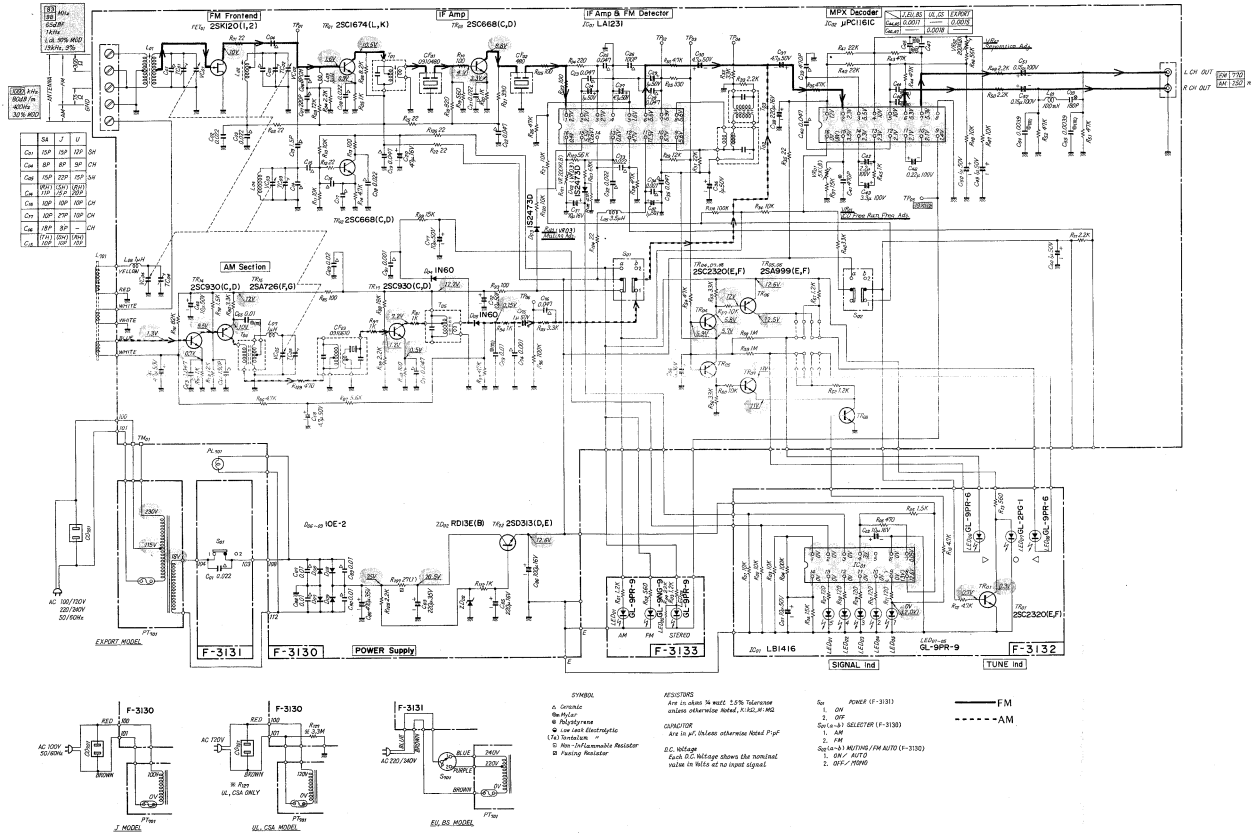
Parts List

Parts No.	Stock No.	Description	Parts No.	Stock No.	Description	Parts No.	Stock No.	Description
1	38005000	Power Cord 125V, 10A	7	71981100	Tension Unit	14	54578000	Side Panel (L)
2	38100000	Strain Relief	8	12203000	Variable Capacitor	15	54578110	Side Panel (R)
3	24601100	AC Outlet	9	42010000	AM Bar Antenna			
4	40020000	Power Transformer	10	52686000	Antenna Holder			
5	04007800	Lamp 20V, 0.12A	11	61467200	Push Knob (S)			
6	70387100	Tuning Unit (S)	12	22802000	4P Antenna Terminal			
	70387000	Tuning Unit (B)	13	22807000	2P Input Terminal			

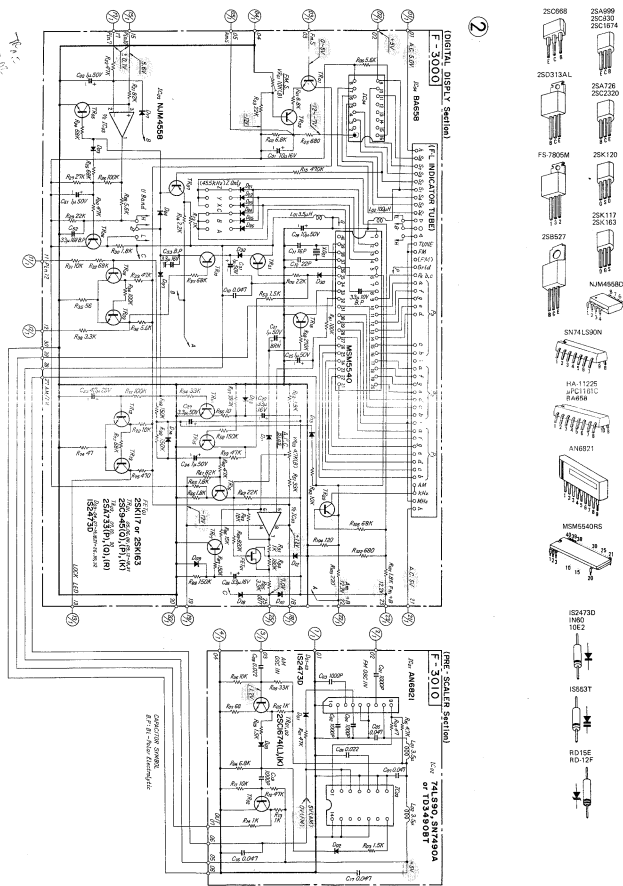
6. SCHEMATIC DIAGRAM 6-1. Tuner Section <T-80>



6-2. Tuner Section <T-60>

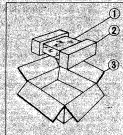


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8. ACCESSORY PARTS LIST

Parts No.	Stock No.	Description
1	91263800	Vinyl Cover
2	90284000	Styrofoam Packing
3	90561800	Carton Case <T-80 (S)>
	90563000	Carton Case <T-80 (B)>
	90562000	Carton Case <T-80 (S)>
	90562600	Carton Case <T-80 (B)>



Stock No.	Description
92055200	Operating Instructions <T-80>
92055100	Operating Instructions <T-60>
38201200	FM Antenna
38103200, 1	PJP Cord

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